Computational Mathematics Advanced Requirements

Math 24
Ordinary Differential Equations

Math 100
Intro to Proofs and Problem Solving

Math 110
Number Theory

Analysis
(Must take one of the following)

Differential Equations
(Must take one of the following)

Algebra
(Must take one of the following)

Computational
(Must take one of the following)

Math 103A
Complex Analysis

Or

Math 105A
Real Analysis

Math 106
Systems of ODEs

Or

Math 107
Partial Differential Equations

Math 111A
Algebra

Or

Math 111T
Algebra

Or

Math 117
Advanced Linear Algebra

Math 145/L
Chaos Theory

Or

Math 148/L
Numerical Analysis

Or

AM 114
Dynamical Systems

Or

AM 147
Computational Methods

Comprehensive Requirement
(Must take one of the following)

Math 194
Senior Seminar

Or

Math 195
Senior Thesis

2 Electives from Approved List

Approved List of Elective Courses

MATH:	AM:	BME:	CSE:	EART:	ECE:	ECON:	PHYS:	STAT:
115	Any course above 100	110	101	172	103	113	107	Any course above 100
116			102		130		115	
120			103		135			
134			104		141			
145			106		151			
148			107		153			
152			110A					
160			111					
			112					
			132					
			142					

Courses from departments other than Math, AM and STAT are intended for double major students and have significant prerequisites.